

Serial No. 09/513,350
Art Unit No. 3623

LISTING OF CLAIMS

1. (canceled)
2. (currently amended) A method of managing workload within a WFMS according to claim 6 ~~claim 1~~, further comprising, when said analyzing step indicates that there is a priority execution indicator, said WFMS setting its own execution priority for WFMS internal processing to the execution priority specified according to said priority execution indicator.
3. (original) A method of managing workload within a WFMS according to claim 2, further comprising, when said analyzing step indicates that there is a priority execution indicator, setting the priority of one or more messages relating to the processing of said activity are set to the execution priority specified according to said priority execution indicator.
4. (canceled)

Serial No. 09/513,350
Art Unit No. 3623

8.
5. (currently amended) A method of managing workload within a WFMS according to claim 16 claim 4, further comprising, when said analyzing step indicates that there is a priority execution specification for said activity, assigning the priority execution indicator of said priority execution specification of said activity to said activity.

✓
6. (currently amended) A computerized method of managing workload within a WFMS according to claim 4, Workflow-Management-System (WFMS) said method being executable by said WFMS on at least one computer system, wherein said WFMS comprises a process model, said process model comprising one or more activities being the nodes of an arbitrary graph, and directed edges of said graph defining a potential control flow within said process model, said method comprising the steps of:

analyzing said process model to determine if a priority execution indicator is assigned to one of said one or more activities within said process model; and wherein said process model is further analyzed to determine if there is a

Serial No. 09/513,350
Art Unit No. 3623

priority execution specification associated with said activity.

when said analyzing step indicates that there is a priority execution indicator for an activity, said WFMS launching execution of said activity with an execution priority specified according to said priority execution indicator; and

~~further comprising,~~ when there is no priority execution specification of said activity, analyzing for a priority execution specification of a performance sphere comprising said activity, said performance sphere comprising a sub-graph of said process model associating a process execution indicator to activities within said performance sphere.

9
7.

(original) A method of managing workload within a WFMS according to claim 6, further comprising, when a priority execution specification of said performance sphere is located, assigning the priority execution indicator of said

Serial No. 09/513,350
Art Unit No. 3623

priority execution specification of said performance sphere to said activity.

10

8. (original) A method of managing workload within a WFMS according to claim 8, further comprising, when a priority execution specification is not located for said performance sphere, analyzing said process model for a priority execution specification associated with said process model and assigning the priority execution indicator of said priority execution specification of said process model to said activity.

11

9. (currently amended) A method of managing workload within a WFMS according to claim 6 ~~claim 1~~, wherein said activity requires a specific execution-environment and wherein said launching further comprises mapping said priority execution indicator to a value based on said activity's specific execution environment.

12

10. (previously presented) A method of managing workload within a WFMS according to claim 2, wherein said activity requires a specific execution-environment and wherein said

Serial No. 09/513,350
Art Unit No. 3623

launching further comprises mapping said priority execution indicator to a value in accordance to said WFMS's specific execution-environment.

5
11. (previously presented) A method of managing workload within a WFMS according to claim 3, wherein said one or more messages are communicated along a communication-system and wherein said launching further comprises mapping said priority execution indicator to a value in accordance to said communication-system.

6
12. (original) A method of managing workload within a WFMS according to claim 3, said launching further comprises said WFMS launching execution of said activity directly by calling said activity with said execution priority.

7
13. (original) A method of managing workload within a WFMS according to claim 3, wherein said launching further comprises said WFMS launching execution of said activity indirectly by sending said activity a message set to said execution priority and said activity being responsive by setting its execution priority accordingly.

Serial No. 09/513,350
Art Unit No. 3623

12
14. (currently amended) A data processing program for execution in a data processing system comprising software code portions for performing a method for managing workload within a Workflow-Management-System (WFMS) said method being executable by said WFMS on at least one computer system, wherein said WFMS comprises a process model, said process model comprising one or more activities being the nodes of an arbitrary graph, and directed edges of said graph defining a potential control flow within said process model, said method comprising the steps of:

analyzing said process model to determine if a priority execution indicator is assigned to one of said one or more activities within said process model, and wherein said process model is further analyzed to determine if there is a priority execution specification associated with said activity.

when said analyzing step indicates that there is a priority execution indicator for an activity, said WFMS launching execution of said activity with an execution

Serial No. 09/513,350
Art Unit No. 3623

priority specified according to said priority execution indicator; and

when there is no priority execution specification of said activity, analyzing for a priority execution specification of a performance sphere comprising said activity, said performance sphere comprising a sub-graph of said process model associating a process execution indicator to activities within said performance sphere.

13. (currently amended) A program storage device readable by machine, tangibly embodying a program of instructions executable by the machine for performing method steps for managing workload within a Workflow-Management-System (WFMS), said method being executable by said WFMS on at least one computer system, wherein said WFMS comprises a process model, said process model comprising one or more activities being the nodes of an arbitrary graph, and directed edges of said graph defining a potential control flow within said process model, said method comprising the steps of:

Serial No. 09/513,350
Art Unit No. 3623

analyzing said process model to determine if a priority execution indicator is assigned to one of said one or more activities within said process model; and wherein said process model is further analyzed to determine if there is a priority execution specification associated with said activity.

when said analyzing step indicates that there is a priority execution indicator for an activity, said WFMS launching execution of said activity with an execution priority specified according to said priority execution indicator; and

when there is no priority execution specification of said activity, analyzing for a priority execution specification of a performance sphere comprising said activity, said performance sphere comprising a sub-graph of said process model associating a process execution indicator to activities within said performance sphere.

Serial No. 09/513,350
Art Unit No. 3623

14

16. (currently amended) A system for managing workload in a computer system comprising:

a Workflow-Management-System (WFMS) on at least one computer in said system, said WFMS comprises a process model, said process model comprising one or more activities being the nodes of an arbitrary graph, and directed edges of said graph defining a potential control flow within said process model;

at least one processor component for analyzing said process model to determine if a priority execution indicator is assigned to one of said one or more activities within said process model, and wherein said process model is further analyzed to determine if there is a priority execution specification associated with said activity,

an activity launching component for causing said WFMS to launch execution of said activity, when said analyzing step indicates that there is a priority execution indicator for an activity, said WFMS launching execution of said

GE999-002

-10-

Serial No. 09/513,350
Art Unit No. 3623

activity with an execution priority specified according to
said priority execution indicator; and

when there is no priority execution specification of
said activity, said at least one processor component
analyzing for a priority execution specification of a
performance sphere comprising said activity, said
performance sphere comprising a sub-graph of said process
model associating a process execution indicator to
activities within said performance sphere.